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10/556,007	11/08/2005	Matthew P.J. Baker	GB 030181	4551
24737 7590 01/23/2009 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			BATISTA, MARCOS	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/556,007	BAKER ET AL.		
Office Action Summary	Examiner	Art Unit		
	MARCOS BATISTA	2617		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with th	e correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stal Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be od will apply and will expire SIX (6) MONTHS fit tute, cause the application to become ABANDO	ON. The timely filed The timely filed The mailing date of this communication. The mailing date of this communication.		
Status				
Responsive to communication(s) filed on <u>09</u> This action is FINAL . 2b) ☐ TI Since this application is in condition for allow closed in accordance with the practice unde	his action is non-final. vance except for formal matters,			
Disposition of Claims				
4) ☐ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Examination The specification is objected to by the Examination The specification is objected.	rawn from consideration. d/or election requirement. iner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the properties of the properties of the correct of the properties of the prope	he drawing(s) be held in abeyance. section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:			

DETAILED ACTION

This Action is in response to Applicant's amendment filed on 10/09/2008. Claims
 are still pending in the present application. This Action is made NON-FINAL.

Response to Arguments

2. Applicant's arguments with respect to claim 34 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments filed on 10/09/2008 with respect to claims 1 and 18 have been fully considered but they are not persuasive.

After carefully revising the office action pertinent to the present response in regard to claims 1 and 18 of the Applicant's remarks, 1 main point(s) have been identified:

1) The Applicant states that "Das is silent with regard to an interruption of the quality reporting from the mobile station, and specifically does not address changing the time of reporting based on an interruption of the power control loop or the quality reporting" (refer to page 11 lines 3-5 of the Applicant's remarks).

Regarding point 1), Das clearly teaches "an interruption of the quality reporting from the mobile station, and changing the time of reporting based on an interruption of the quality reporting" (see fig. 2, pars. 0016 lines 3-7, 0017 lines 1-24, 0018 lines 1-4 where Das discusses that when the base station is not transmitting data to the mobile stations, the channel quality information is reported to the base station every two 2 slot, and when the mobile station is receiving data from the base station, the channel quality information is reported to the base station, the channel quality

teaches that when the base station ends the transmission of data to the mobile station, the channel quality information resumes to be reported to the base station every two 2 slot. This constitutes an interruption in the channel quality information from every 2 slot to every slot, because when the base station is sending data, the reporting at every 2 slots is changed to every slot. In regard to the power control loop, the claims reads "the power control loop or the quality reporting," the alternative form of the claims is being used; the quality reporting).

Therefore, the argued features are written such that they read upon the cited reference(s).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-10, 16-27, 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Apostolides et al. (US 6829226 B1), hereafter "Apostolides," in view of Das et al. (US 20030087605 A1), hereafter "Das."

Consider claim 1, Apostolides discloses a mobile station (16) for use in a communication system having a base station (18), the mobile station comprising power control signal generation means for generating a power control signal for enabling the

base station to adjust its transmit power level in accordance with a power control loop process (see figs.1 and 4, col. 6 lines 53-61), report generation means for generating reports from measurements of a characteristic of a signal received from the base station (see figs.1 and 4, col. 6 lines 48-50), transmitter means for transmitting the reports and the power control signal to the base station (see fig. 4, col. 6 lines 48-61).

Apostolides, however, does not particular refer to a transmission control means adapted to control a time of transmission of the reports such that first of the reports are transmitted at a predetermined sequence of times and, in response to an interruption in the power control loop process or the transmitting of the reports, and for a period existing at least one of before, during and after the interruption, to control a time of transmission of one or more second of the reports at times that are not coincident with the predetermined times.

Das, teaches a transmission control means adapted to control a time of transmission of the reports such that first of the reports are transmitted at a predetermined sequence of times (see fig. 2, par. 0016 lines 3-7) and, in response to an interruption in the power control loop process or the transmitting of the reports, and for a period existing at least one of before, during and after the interruption, to control a time of transmission of one or more second of the reports at times that are not coincident with the predetermined times (see par. 0017 lines 7-24).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Apostolides and have it include a transmission control means adapted to control a time of transmission of the reports such that first of the reports are transmitted at a predetermined sequence of times and, in response to an interruption in the power control loop process or the transmitting of the reports, and for a period existing at least one of before, during and after the interruption, to control a time of transmission of one or more second of the reports at times that are not coincident with the predetermined times, as taught by Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 2, Apostolides as modified by Das teaches claim 1, Apostolides further teaches wherein the power control signal comprises power control commands (see col. 6 lines 50-52).

Consider claim 3, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the report generation means is adapted to generate at least one of the second reports from a measurement of shorter duration than a measurement duration used to generate the first reports (see par. 0016 lines 14-18).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data

exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 4, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the report generation means is adapted to generate an earliest report transmitted after an end of the interruption from a measurement commenced before the end of the interruption (see par. 0018 lines 1-4).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 5, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the transmission control means is adapted to select, in response to an indication of a length of the interruption, a start time of the period for which the second reports are transmitted (see par. 0019 lines 1-5).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 6, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the transmission control means is adapted to select, in response to an indication of a length of the interruption, a duration of the period for which the second reports are transmitted (see par. 0019 lines 1-5).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 7, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the transmission control means is adapted to select, in response to an indication of a length of the interruption, a number of the second reports to be transmitted in the period (see par. 0019 lines 1-5).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 8, Apostolides as modified by Das teaches claim 1, Das further teaches wherein a duration of the period for which the second reports are transmitted is predetermined (see par. 0020 lines 4-7).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 9, Apostolides as modified by Das teaches claim 1, Das further teaches w herein a number of the second reports transmitted in the period is predetermined (see par. 0020 lines 4-7).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 10, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the period terminates when a next predetermined time occurs (see par. 0020 lines 16-19).

It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 16, Apostolides as modified by Das teaches claim 1, Das further teaches wherein the transmission control means is adapted to, after one or more second reports have been transmitted, apply a time shift to the predetermined sequence of times for the transmission of subsequent first reports (see par. 0020 lines 4-7, 16-19).

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It would have been obvious to have modified Apostolides' invention with the teaching of Das. The motivation would have been in order to be able to maintain data exchange synchronization between the mobile and the base station after a delay (see par. 0017 lines 7-24).

Consider claim 17, Apostolides as modified by Das teaches claim 1, Apostolides further teaches radio communication system comprising a base station (18) and at least one mobile station (16) as claimed in claim 1 (see fig. 1, col. 6 lines 48-50).

Consider claims 18-27 and 33, these claims discuss the same subject matter as claims 1-10 and 16 respectively. Therefore, they have been analyzed and rejected based upon the rejection to claim 1-10 and 16.

5. Claims 11-14, 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Apostolides et al. (US 6829226 B1), hereafter "Apostolides," in view of Das et al. (US 20030087605 A1), hereafter "Das," further in view of Seo et al. (US 20030123396 A1), hereafter "Seo."

Consider claims 11-14, Apostolides as modified by Das teaches claim 1, but neither Apostolides nor Das particular refer to wherein the transmission control means is adapted to terminate the period in response to an indication of convergence of the power control loop process; wherein the indication of convergence is a signal received from the base station; wherein the transmitter control means is adapted to generate the indication of convergence in accordance with a predetermined criterion; wherein the predetermined criterion includes a reversal of the sign of at least one power control command.

Seo teaches wherein the transmission control means is adapted to terminate the period in response to an indication of convergence of the power control loop (see par. 0038 lines 1-7); wherein the indication of convergence is a signal received from the base station (see par. 0039 lines 1-2); wherein the transmitter control means is adapted to generate the indication of convergence in accordance with a predetermined criterion (see par. 0040 lines 1-3); wherein the predetermined criterion is a reversal of the sign of at least one power control command (see par. 0068 lines 1-8).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Apostolides as modified by Das and have it include wherein the transmission control means is adapted to terminate the period in response to an indication of convergence of the power control loop; wherein the indication of convergence is a signal received from the base station; wherein the transmitter control means is adapted to generate the indication of convergence in

accordance with a predetermined criterion; wherein the predetermined criterion is a reversal of the sign of at least one power control command, as taught by Seo. The motivation would have been in order to decrease interference when getting close to a handoff region (see par 0069 lines 1-4, 11-15).

Consider claims 28-31, these claims discuss the same subject matter as claims 11-14 respectively. Therefore, they have been analyzed and rejected based upon the rejection to claim 11-14.

6. Claims 15 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Apostolides et al. (US 6829226 B1), hereafter "Apostolides," in view of Das et al. (US 20030087605 A1), hereafter "Das," further in view of Cudak et al. (US 20050289256 A1), hereafter "Cudak."

Consider claim 15, Apostolides as modified by Das teaches claim 1, but neither Apostolides nor Das particular refer to wherein the report generation means is adapted to suspend generation of the first reports during the interruption.

Cudak teaches wherein the report generation means is adapted to suspend generation of the first reports during the interruption (see par. 0053 lines 1-5).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Apostolides as modified by Das and have it include wherein the report generation means is adapted to suspend generation of the

first reports during the interruption, as taught by Cudak. The motivation would have been in order to allow the base station to better manage its resources by controlling the transmission of quality report from the mobile station (see par. 0055 lines 1-8).

Consider claim 32, this claim discusses the same subject matter as claim 15.

Therefore, it has been analyzed and rejected based upon the rejection to claim 15.

7. Claims 34-36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Apostolides et al. (US 6829226 B1), hereafter "Apostolides," in view of Das et al. (US 20030087605 A1), hereafter "Das," further in view of Cheng et al. (US 20040246917 A1), hereafter "Cheng."

Consider claim 34, this claim discusses similar subject matter as claim 1. Therefore, it has been analyzed and rejected based upon the rejection to claim 1. In addition, claim 34 also states scheduling means for scheduling an interruption in the power control loop process or the reports received from the mobile station. However, Apostolides as modified by Das does not particular refer to the above mentioned feature.

Cheng, in analogous art, teaches a base transceiver stations configured to activate a delay process (i.e., scheduling an interruption) in the reports received from the mobile station (see pars. 0026 lines 6-8, 0033 lines 7-12 and 19-23, 0034 lines 18-22).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Apostolides as modified by Das and have it include a base transceiver stations configured to activate a delay process (i.e., scheduling an interruption) in the reports received from the mobile station, as taught by Cheng. The motivation would have been in order to prepare the system for a hand off (see par. 0033 lines 1-26).

Consider claims 35-36, these claims discuss the same subject matter as claims 2 and 5 respectively. Therefore, they have been analyzed and rejected based upon the rejection to claim 2 and 5.

Consider claim 38, this claim discusses the same subject matter as claim 5.

Therefore, it has been analyzed and rejected based upon the rejection to claim 5.

8. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Apostolides et al. (US 6829226 B1), hereafter "Apostolides," in view of Das et al. (US 20030087605 A1), hereafter "Das," in view of Cheng et al. (US 20040246917 A1), hereafter "Cheng," further in view of Seo et al. (US 20030123396 A1), hereafter "Seo."

Consider claim 37, Apostolides as modified by Das and Cheng discusses the invention of claim 34. However, Apostolides alone or combined does not particular refer to wherein the scheduling means is adapted to determine an end time of the period in response to an indication of convergence of the power control loop process.

Seo teaches wherein the scheduling means is adapted to determine an end time of the period in response to an indication of convergence of the power control loop process (see par. 0038 lines 1-7).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Apostolides as modified by Das and Cheng and have it include wherein the transmission control means is adapted to terminate the period in response to an indication of convergence of the power control loop, as taught by Seo. The motivation would have been in order to decrease interference when getting close to a handoff region (see par 0069 lines 1-4, 11-15).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Marcos Batista, whose telephone number is (571) 270-5209. The Examiner can normally be reached on Monday-Thursday from 8:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Rafael Pérez-Gutiérrez can be reached at (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Marcos Batista /M. B./

/Rafael Pérez-Gutiérrez/ Supervisory Patent Examiner, Art Unit 2617

01/07/2009